

Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
336415, Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	2002 ..	17	27	14 617	990 199	5 605	11 454	288 872	1 862 136	731 165	2 619 596	'106 735
	2001 ..	N	N	15 324	1 020 983	6 292	13 245	292 872	1 578 657	702 437	2 412 361	97 660
	2000 ..	N	N	14 688	898 320	6 485	13 619	307 268	1 656 263	707 460	2 258 172	101 595
	1999 ..	N	N	17 911	1 038 530	7 592	15 542	366 744	1 996 055	921 613	2 879 775	162 045
	1998 ..	N	N	18 430	1 068 768	7 812	15 569	367 833	2 139 050	968 871	3 030 060	124 765
	1997 ..	19	27	17 738	1 031 920	7 903	15 557	363 756	2 062 154	1 061 215	3 101 378	89 321

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
336415, Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing												
United States.....	—	27	21	14 617	990 199	5 605	11 454	288 872	1 862 136	731 165	2 619 596	'106 735
California	—	7	7	6 862	530 096	2 420	4 563	136 360	828 826	267 673	1 158 255	'60 546

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
336415, Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	
Companies ¹	17
All establishments ²	27
Establishments with 1 to 19 employees	6
Establishments with 20 to 99 employees	7
Establishments with 100 employees or more	14
All employees ³	14 617
Total compensation	1 288 836
Annual payroll	990 199
Total fringe benefits	298 637
Production workers, average for year	5 605
Production workers on March 12	5 586
Production workers on May 12	5 528
Production workers on August 12	5 650
Production workers on November 12	5 646
Production worker hours	11 454
Production worker wages	288 872
Total cost of materials	731 165
Materials, parts, containers, packaging, etc., used	650 908
Resales	D
Purchased fuels	D
Purchased electricity	35 480
Contract work	35 644
Quantity of electricity purchased for heat and power	608 073
Quantity of electricity generated less sold for heat and power	S
Total value of shipments	2 619 596
Primary products value of shipments	2 096 762
Secondary products value of shipments	D
Total miscellaneous receipts	D
Value of resales	D
Contract receipts	—
Other miscellaneous receipts	D
Primary products specialization ratio	87
Value of primary products shipments made in all industries	3 390 336
Value of primary products shipments made in this industry	2 096 762
Value of primary products shipments made in other industries	1 293 574
Coverage ratio	62
Value added	1 862 136
Total inventories, beginning of year	625 923
Finished goods inventories	10 084
Work-in-process inventories	568 198
Materials and supplies inventories	47 641
Total inventories, end of year	583 725
Finished goods inventories	9 883
Work-in-process inventories	542 104
Materials and supplies inventories	31 738
Gross value of depreciable assets (acquisition costs) at beginning of year	2 098 899
Total capital expenditures (new and used)	1'106 735
Buildings and other structures (new and used)	'29 716
Machinery and equipment (new and used)	'77 019
Automobiles, trucks, etc., for highway use	'1 094
Computers and peripheral data processing equipment	'11 165
All other expenditures for machinery and equipment	'64 760
Total retirements	'83 987
Gross value of depreciable assets at end of year	'2 121 647
Depreciation charges during year	'88 234
Total rental payments	24 562
Buildings and other structures	15 227
Machinery and equipment	9 335
Total other expenses ⁴	215 357
Response coverage ratio ⁵	93
Repair and maintenance services of buildings and/or machinery ⁴	38 234
Communications services ⁴	7 251
Legal services ⁴	7 944
Accounting, auditing, and bookkeeping services ⁴	D
Advertising and promotional services ⁴	D
Expensed computer hardware and supplies and purchased computer services ⁴	24 740
Refuse removal (including hazardous waste) services ⁴	3 278
Management consulting and administrative services ⁴	12 178
Taxes and license fees ⁴	19 789
All other expenses ⁴	100 736

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
336415, Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing											
All establishments	—	27	14 617	990 199	5 605	11 454	288 872	1 862 136	731 165	2 619 596	'106 735
Establishments with —											
1 to 4 employees	6	4	10	590	4	7	169	1 204	490	1 694	'54
5 to 9 employees	—	1	a	D	D	D	D	D	D	D	—
10 to 19 employees	—	1	a	D	D	D	D	D	D	D	D
20 to 49 employees	—	6	193	11 435	145	371	8 073	40 453	14 028	52 216	1 101
50 to 99 employees	—	1	b	D	D	D	D	D	D	D	D
100 to 249 employees	8	3	555	21 217	361	797	10 784	47 328	44 557	93 918	'2 600
250 to 499 employees	—	3	g	D	D	D	D	D	D	D	D
500 to 999 employees	—	4	3 368	229 211	1 746	3 790	110 458	409 935	198 711	598 513	38 542
1,000 to 2,499 employees	—	2	h	D	D	D	D	D	D	D	D
2,500 employees or more	—	2	i	D	D	D	D	D	D	D	D
Administrative records ⁴	—	—	—	—	—	—	—	—	—	—	—

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	27	14 617	990 199	5 605	11 454	288 872	1 862 136	731 165	2 619 596	'106 735
3364151	Complete missiles, space vehicle engines, and propulsion units	14	12 994	909 460	4 670	9 416	252 003	1 681 541	579 035	2 288 976	'100 099
3364153	Research and development on complete missiles, space vehicle engines, and propulsion units	1	e	D	D	D	D	D	D	D	D
3364155	Other services on complete missiles, space vehicle engines, and propulsion units	3	f	D	D	D	D	D	D	D	D
3364157	Missile and space vehicle engine and propulsion parts and accessories	5	251	14 074	173	384	8 284	31 610	13 071	44 638	1 490

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	2002.. N	X	X	3 390 336
	..... 1997.. N		X	X	4 743 002
3364151	Complete missiles, space vehicle engines, and propulsion units	2002.. N	X	X	2 177 304
	..... 1997.. N		X	X	2 652 635
33641511	Complete missiles, space vehicle engines, and propulsion units for U.S. Government military customers	2002.. N	X	X	1 133 849
	..... 1997.. N		X	X	1 477 061
3364151101	Complete missiles, space vehicle engines, and propulsion units for U.S. Government military customers	2002.. 15	X	X	1 133 849
	..... 1997.. 11		X	X	1 477 061
33641512	Complete missiles, space vehicle engines, and propulsion units for U.S. Government nonmilitary customers	2002.. N	X	X	733 995
	..... 1997.. N		X	X	D
3364151204	Complete missiles, space vehicle engines, and propulsion units for U.S. Government nonmilitary customers	2002.. 7	X	X	733 995
	..... 1997.. 6		X	X	D
33641513	Complete missiles, space vehicle engines, and propulsion units for other customers	2002.. N	X	X	309 460
	..... 1997.. N		X	X	D
3364151307	Complete missiles, space vehicle engines, and propulsion units for other customers	2002.. 8	X	X	309 460
	..... 1997.. 9		X	X	D
3364151Y	Complete missiles, space vehicle engines, and propulsion units, nsk	2002.. N	X	X	—
	..... 1997.. N		X	X	6 262
3364151YVV	Complete missiles, space vehicle engines, and propulsion units, nsk	2002.. N	X	X	—
	..... 1997.. N		X	X	6 262
3364153	Research and development on complete missiles, space vehicle engines, and propulsion units	2002.. N	X	X	681 877
	..... 1997.. N		X	X	1 273 822
33641531	Research and development on complete missiles, space vehicle engines, and propulsion units	2002.. N	X	X	681 877
	..... 1997.. N		X	X	1 273 822
3364153101	Research and development on complete missiles, space vehicle engines, and propulsion units for U.S. Government military customers	2002.. 11	X	X	580 642
	..... 1997.. 13		X	X	1 164 926
3364153104	Research and development on complete missiles, space vehicle engines, and propulsion units for U.S. Government nonmilitary customers	2002.. 5	X	X	83 081
	..... 1997.. 6		X	X	15 281
3364153107	Research and development on complete missiles, space vehicle engines, and propulsion units for other customers	2002.. 6	X	X	18 154
	..... 1997.. 6		X	X	93 615
3364153Y	Research and development on complete missiles, space vehicle engines, and propulsion units, nsk	2002.. N	X	X	—
	..... 1997.. N		X	X	—
3364153YVV	Research and development on complete missiles, space vehicle engines, and propulsion units, nsk	2002.. N	X	X	—
	..... 1997.. N		X	X	—
3364155	Other services on complete missiles, space vehicle engines, and propulsion units	2002.. N	X	X	286 978
	..... 1997.. N		X	X	323 683
33641551	Other services on complete missiles, space vehicle engines, and propulsion units	2002.. N	X	X	286 978
	..... 1997.. N		X	X	323 683
3364155101	Other services on complete missiles, space vehicle engines, and propulsion units for U.S. Government military customers	2002.. 9	X	X	D
	..... 1997.. 9		X	X	D
3364155104	Other services on complete missiles, space vehicle engines, and propulsion units for U.S. Government nonmilitary customers	2002.. 3	X	X	D
	..... 1997.. 4		X	X	D
3364155107	Other services on complete missiles, space vehicle engines, and propulsion units for other customers	2002.. 3	X	X	D
	..... 1997.. 3		X	X	D
3364155Y	Other services on complete missiles, space vehicle engines, and propulsion units, nsk	2002.. N	X	X	—
	..... 1997.. N		X	X	—
3364155YVV	Other services on complete missiles, space vehicle engines, and propulsion units, nsk	2002.. N	X	X	—
	..... 1997.. N		X	X	—
3364157	Missile and space vehicle engine and propulsion parts and accessories	2002.. N	X	X	238 306
	..... 1997.. N		X	X	461 637
33641571	Missile and space vehicle engine and propulsion parts and accessories	2002.. N	X	X	233 637
	..... 1997.. N		X	X	461 569
3364157101	Missile and space vehicle engine and propulsion parts and accessories for U.S. Government military customers	2002.. 10	X	X	136 840
	..... 1997.. 18		X	X	323 009
3364157104	Missile and space vehicle engine and propulsion parts and accessories for U.S. Government nonmilitary customers	2002.. 3	X	X	D
	..... 1997.. 11		X	X	48 500
3364157107	Missile and space vehicle engine and propulsion parts and accessories for other customers	2002.. 11	X	X	D
	..... 1997.. 17		X	X	90 060
3364157Y	Missile and space vehicle engine and propulsion parts and accessories, nsk	2002.. N	X	X	4 669
	..... 1997.. N		X	X	68
3364157YVV	Missile and space vehicle engine and propulsion parts and accessories, nsk	2002.. N	X	X	4 669
	..... 1997.. N		X	X	68

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing—Con.				
336415W	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing, nsk, total	2002..	N	X	5 871
		1997..	N	X	D
336415WY	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing, nsk, total	2002..	N	X	5 871
		1997..	N	X	31 225
336415WYWW	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing, nsk, for nonadministrative-record establishments	2002..	N	X	444
		1997..	N	X	31 225
336415WYWY	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing, nsk, for administrative-record establishments	2002..	N	X	5 427
		1997..	N	X	—

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p–10 to 19 percent estimated; q–20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3364151	Complete missiles, space vehicle engines, and propulsion units	
	United States..... 2002..	2 177 304
	..... 1997..	2 652 635
	California 2002..	582 977
	..... 1997..	613 014
3364153	Research and development on complete missiles, space vehicle engines, and propulsion units	
	United States..... 2002..	681 877
	..... 1997..	1 273 822
3364155	Other services on complete missiles, space vehicle engines, and propulsion units	
	United States..... 2002..	286 978
	..... 1997..	323 683
3364157	Missile and space vehicle engine and propulsion parts and accessories	
	United States..... 2002..	238 306
	..... 1997..	461 637
	California 2002..	135 363
	..... 1997..	50 955

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing		
00900001	Total materials .....2002..	X	650 908
	.....1997..	X	971 868
33641503	Guided missile and space vehicle engines and parts .....2002..	X	D
	.....1997..	X	153 060
33641501	Guided missile and space vehicle propulsion units and parts .....2002..	X	160 335
	.....1997..	X	494 364
33641900	Guided missile and space vehicle airframe parts .....2002..	X	D
	.....1997..	X	N
33422003	Radio communication systems and equipment, including airborne transmitters and receivers (microwave, UHF, VHF, etc.) .....2002..	X	D
	.....1997..	X	N
33451103	Navigational systems and equipment (NAVAIDS) .....2002..	X	N
	.....1997..	X	N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components .....2002..	X	808
	.....1997..	X	D
00190070	Resin matrix composites .....2002..	X	D
	.....1997..	X	D
00190071	Other matrix composites (including ceramic, carbon, metal, etc.) .....2002..	X	D
	.....1997..	X	D
33291209	Complete mechanical, hydraulic and pneumatic subassemblies .....2002..	X	D
	.....1997..	X	5 703
00190090	Fluid power products .....2002..	X	D
	.....1997..	X	4 195
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	2 283
	.....1997..	X	D
33200063	Other fabricated metal products (excluding fluid power products and forgings) .....2002..	X	D
	.....1997..	X	17 085
33211101	Iron and steel forgings .....2002..	X	D
	.....1997..	X	1 573
33211201	Nonferrous forgings .....2002..	X	D
	.....1997..	X	6 088
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	3 737
	.....1997..	X	D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	D
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	D
	.....1997..	X	4 540
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	3 471
32500045	Chemicals, all types (including propellants) .....2002..	X	31 163
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	259 753
	.....1997..	X	215 641
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	22 597
	.....1997..	X	18 133

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.